OTS: 60-11, 915

JPRS: 5020

14 July 1960



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SECTION K - FORESTRY

Book No. 1, 1959

Abstracts 1433 thru 1513



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JPRS: 5020

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SELECTED TRANSLATIONS OF

ABSTRACTS IN REFERATIVNLY ZHURNAL - BIOLOGIYA, No. 1, 1959

This report consists of complete translations of the Russian-language abstracts of articles, which were originally published in the Sino-Soviet bloc and in Yugoslavia.

The Soviet subject classification system used in the original Russian language abstracts has been followed in this publication.

JOUR SHE

, _'O_La_6.

CATEGORY

Forestry. General Problems.

ABS. JOUR. Ref Zhurh-Biologiya, No. 1, 1959, No. 1437

AUTHOR

Žabko-Potopowicz, Antoni

INST.

·Not given

TITIE

:Forests and Forestry in Polish Lands in the

First Half of the XIXth Century.

ORIG. RUE. Sylwan, 1956, 100, No.7, 58-87

ABSTRACT

No abstract

CARD:

1/1

COUNTRY

. Poland

CATEGORY

Forestry . General Problems.

ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1438

AUTHOR

Wiecko, Edward

INST.

· Not given

TITLE

Forests and Forestry in Polish Lands in the

Second Half of the XIXth Century.

ORIG. FUB. :Sylwan, 1956, 100, No.7, 88-135

ABSTRACT

:No abstract

- Polana

CATEGORY

Forestry, General Problems.

ABS. JOUR. Ref Zhur-Biologiya, No.1, 1959, No. 1439

AUTHOR

: Lrysik, Franciszek

INST.

, Not given

TITLE

Forests of Carpathia and their Importance for

the National Economy.

ORIG. PUB. ; Sylwan, 1956, 100, No.10, 5-26

ABUTRACT

;No abstract

CARD:

1/1

COUNTRY.

. Poland

CATEGORY

· Forestry . Dendrology.

AEG. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1441

K

AUTHOR

INST.

· Maciejowski, Kazimierz

TITLE

Larch in the Forests of Poland.

ORIG. PUB. : Sylwan, 1956, 100, No.11, 6-50

ABSTRACT

:No abstract

COULTY

USEN

CATEGORY

Forestry . Dendrology.

ABS. JOUR. Ref Zhur-Biologiya, No.1, 1959, No. 1446

ROETUA

INST.

Mishchenko, A.S.; Novikov, G.S. Inst. of Agriculture AS Turkmen SSR

TITLE

:Treelike Willow - Main Species for Biological Melioration in the Flood Plain of the Amu-Darya

River.

ORIG, PUE.

Tr. In-ta zemledeliya. AN TurkmSSR, 1957, 1,

199-214

ABSTRACT

: The study of the biological characteristics of tree species which grow in the arid climate of Turkmenia showed that the tree-like willows are the best for the purpose of biological melioration. They are easily propogated, can grow in saline soils and with the ground water level near. At the age of 10 years already, they yield a considerable mass of valuable wood.

The root system of willow is located to a depth of 1.5 m. and pumps out ground water at places

CARD:

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CLITEGORY

ABS. JOUR.

* REF ZHUR - BIOLOGIYA, NO.1, 1959 ;

No:1446

K

AUTHOR INST,

TITLE

UMEG. PIB. :..

ARSTRACT

:with near ground water . Treelike willows possess higher transpiration capacity than other species, while in linear plantations their vegetative mass reaches 60 to 70 kg. per 1 tree During the vegetation period one tree in such plantations transpirates 130 cu.

.m. of water. It was determined that one-row plantations along irrigators transpirate up to 40,000 cu.m. per 1 km. during the vegetation :season. Linear one-to-two row plantings of

2/3

80

COUNTRY

ABS. JOUR.

REF ZHUR - BIOLOGIYA, NO.1, 1959

AUTHOR INST.

TITIE

No. 1446

Non

ORIG. FUB.

ARSTRACT

being filtrated. For the intake of water from large irrigators, it is essential to increase the number of rows in plantations. Graphs are given on the growth of treelike (Amu-Darya and shapked III) willows in height and mass, their taxation indices, data on the daily course of transpiration intensity and the intensity of transpiration by months.

CARD:

15 of 150

CAMEGORY

ABS. JOUR. REF ZHUR - BIOLOGIYA, NO.1, 1959;

AUTHOR INST.

TITIE

TMG. PIB. :

ABSTRACT

315 a

CATEGORY

Forestry. Dendrology.

ARS. JOUR.

Ref Zhur-Biologiya, No.1, 1959, No. 1447

ROPTUA

Mishchenko, A.S.

INST.

Inst. of Agriculture AS Turkmen SSR

TITLE

Black Locust in the Valley of the Amu-Darya

Middle Course.

ORIG. FUE.

Tr. In-ta zamledaliya AN TurkmSSR, 1957, 1.

184-198

ABSTRACT

An investigation of acacia plantations was made in 1951-1953. The value of black locust is indicated as a tree species for the districts of the Amu-Darya river's middle course, where normal plantations can be cultivated in the conditiions of artificial irrigation. In case of 2000 trunks per 1 hectare the stock of average-aged plantings of black locust amounts to 85 cu.m. Mixed plantings of black locust and smooth-

cleaved elm have a larger stock of wood compared

CARD:

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CLIFFGORY

ABS. JUUR. : : REF ZHUR - BIOLOGIYA, NO.1, 1959 .

AUTHOR

INST.

TITIE

INTG: PVB. :

ARSTRACT

:with the pure plantings. The black locust root system is marked by pliability. The main mass of roots is arranged in the soil horizon of 10 to 70 cm. The taproot goes to the depth of 1 m. The transpiration intensity of black locust is low at night (2 to 5 mg. in 3 minutes per 1 gr. of leaf); in daytime it reaches the maximum of 110 to 115 mg. Variation of the black locust's average transpiration intensity during the vegetation period is noted. It reaches the!

2/3

GOUNTRY CATEGORY

ARS. JOUR. :

REF ZHUR - BIOLOGIYA, NO.1, 1959]

AUTHOR INST.

No.1447

TITLE

ORIG. PUB. :

ABSTRACT

maximum value in July. Data are given on the water consumption by one tree in transpiration and the purpose of planting during the vegetation period. It is recommended that black locust be introduced in forest shelter belts.

-- V. V. Protopopov.

CARD:

3/3

COUNTRY :

K

ABS. JOUR. ::

No.

AUTHOR :

TITLE

CRIG. FUB. :

ABSTRACT

K

COUNTRY

· Unda

CATEGORY

Forestry. Dendrology.

ARS. JOUR. * Ref Zhur-Biologiya, No.1, 1959, No. 1448

AUTHOR

IMET. TITLE

Anisimova, A.I. State Nikitsk Botanical Garden

Trials of Species of Coloneaster Med. in the

Crimea.

ORIG. PUB.

Byul. nauchno-tekhn. inform. Gos. Nikitsk. botan. sad, 1957, No.3-4, 15-21

ABCTRACT

The findings are reported of the trials of 46 species and 16 varieties of Coloneaster Med. in the Nikitskaya botanical garden. The sorts that originated from the central, western and partly south-western parts of China proved to be most adapted to local conditions. Best growing of the evergreen sorts are C. Henryana, C. glaucophylla, G. pannosa, G. salicifelia with varieties, C. serotina, C. turbinata, C. horizonstalis with varieties, C. buxifolia vellaca, C. |

CARD:

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COUNTRY

CITTEGORY

ABS. JOUR. : REF ZHUR - BIOLOGIYA, NO.1, 1959

No. 1448

AUTHOR

INST.

TITTE

AG. PIB.

ARCTRACT

irubens and others; exfoliate species C. divaricata. C. hupehensis, C. nitens, C. adpressa with varietles v. praecox and others. The exfoliate C. multiflora, C. racemiflora, C. rosea and others are worthy of attention among the Mediterranean flora.

__ V.I.Nekrasov

CARD:

· USSR

CATEGORY

Forestry. Forest Management.

ARS. JOUR. Ref Zhur-Biologiya, No.1, 1959, No. 1450

AUTHOR

: Matulionis. A.

INST.

HITTLE

Development of the Lithuanian SSR's Forest Economy in the Years of Soviet Power.

ORIG. PUB. 3 Musu Girlos, 1957, No.5, 3-10

ABSTRACT

Statistical data are cited on the forests of the Lithuanian SSR, which are characterized in the scope of forestry and timer exploitation measures. Problems of training forestry personnel and publishing special literature are touched upon.

CARD:

1/1

COUNTRY

K

CATEGORY

ABS. JOUR. :: REF ZHUR - BIOLOGIYA, NO.1, 1959

No.

AUTHOR

INST.

TITIE

TRIG. FUB. :

ABSTRACT

. USSR

CATEGORY

· Forestry . Forest Management.

ABS. JOUR. : Ref Zhur_Biologiya, No.1,1959, No. 1451

AUTHOR

Golikov, A.

INST.

· Moldavian Forest Experimental Station

TITLE

.The Work of Forestry Specialists.

ORIG. FUB. : Zemledeliye j zhivotnovodstvo Moldavii, 1958, No.2, 76-78

ABCTRACT

The results of ten years work of the Moldavian experimental forestry station are summarized. Developed were: a method of breeding oak of natural seed renewal in the upper canopy of planting, measures for conversion of low-value beech plantings with partially preserved oak in oak forests, agro-technology of growing transplant material and the creation of spindle tree and eucommia plantation, the winterhardy forms being selected. Recommendations are given

CARD:

1/2

JOUNTRY

CATEGORY

K .

REF ZHUR - BIOLOGIYA, NO.1, 1959;

Was 1451

AUTHOR

INST.

TITLE .

TRIG. PUB. :

ARSTRACT

on the assortment of trees and bushes, the construction of plantings and agro-technology of forest crops. The periods and means are determined for prescwing preparation of the seeds of linden, spindle tree and Tatar maple. Considerable work has been done in field shalter belt forestation. -- V.I. Klimov

. USSR

CATHGORY

(Forest Management.

ARE. JOUH. Ref Zhur-Biologiya, No.1, 1959, No. 1452

AUTHOR

: Sokolov, G.A.

INST.

TITLE

In the Bakhchisarayskye Forests.

ORIG. PUE. : Lesn. kh-vo, 1957, No.12, 62-65

ABSTRACT

Ruinous consequences of disorderly tree fellings that brought about derangement of the Bakhchisarayskye forests of historic importance, are noted. The experience is described of successful afforestation of mountain slopes denuded of forests with Crimean pine and ordinary pine, a work begun long before the Great Patherland war. The most successful cultivations are described. The significance of reconstruction of natural fruit plantings is emphasized and the method described.

L.V.Nesmelov

K

CARD:

1/1

COUNTRY CHIEGORY

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MO.

ABS. JOUR.

AUTHOR

INST.

TITLE

INIG. PUB. :

ARSTRACT

JOST

CATEGORY

Forestry . Forest Management.

ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1454

AUTHOR

: Verkhunov, P.M.

INST.

: Siberian Sci.-Res. Inst. of Forest Management

TITLE

Defectiveness of Linden Timber Stands of the

South-western Urals.

Sb. statey po lesn. kh-vu. Sibirst.

ORIG. PUB.

: n.-i in-t lesn. kh-va, Krasnoyersk, 1958,

1-33

ABSTRACT

1 A study was made of 2791 rooted trees and 276 felled specimens of linden in the Gafuriysky, Voskresensky, Makarovsky and Zigazof Bashkiria at 14 test insky Leskhozos areas in brush plantings of 50 to 115-year old III - IV * classes with goutweed and gramineous sorts (0.4 - 0.8) participating in the forest types. Only 17.3 % of the trees did not have trunk defects. Crookedness, rot, hollowness,

frostbite, knothness and canker are the most

*locality

CARD:

1/2

COUNTRY CATEGORY K

ABS. JOUR.

🕏 REF ZHUR - BIOLOGIYA, NO.1, 1959 🕽 No. 1454

AUTHOR

INST.

TITLE

ORIG. PUB. :

ARSTRACT

: prevalent among the 10 kinds of defect met. With age the number of defective trees is increased. The greatest average length of commercial trunk wood (7.1 m.) was in trees with out defects. It was found that the wood of the late-flowering forms of linden are less subject than the early-flowering forms to defectiveness (especially rot). Forestry measures to combat defectiveness are described.

-- V.I. Klimov

CARD:

. Rumania

CATEGORY

Forestry . Forest Management.

ARS. JOUR. : Ref Zhurh-Biologiya, No.1, 1959, No. 1460

AUTHOR

: Radu . Stellan

THET. TITIE

: Nethod of Investigating the Process of Natural |

Restoration.

ORIG. FUE. Rev. pedurilor, 1956, 71, No.2, 82-88

ABSTRACT

: The definitions of the conception "natural restoration", best known in literature, are given; the author emphasizes that the conception "natural restoration" itself does not exclude human interference in the formation of new forest, but that, on the contrary, it is necessary to assist natural restoration to secure the most rapid regeneration of valuable species. Methods of investigating the fertility of foreste are listed and briefly described.

CARD:

1/2

COUNTRY CATTEGORY X

REF ZHUR - BIOLOGIYA, NO.1, 1959 , No. 1460

AUTHOR INST.

TITIE

INTE PUB. 1

ABSTRACT

:The means are examined of founding parmanent and temporary test areas, methods of inventorytaking, drafting of test area maps with each tree pin-pointed, measurement of seed crop and self-seeding estimation.

- A. Yana

COUNTER

USSR

CATEGORY

Forestry. Forest Management.

ARS. JOUR. Ref Zhur-Biologiya, No.1, 1959, No. 1462

AUTHOR

TROT.

Bystrov, V.N.
Bashkir Agric. Inst.

TITLE

Reconstruction of Plantings of Young Trees

in the Conditions of Bashkirian ASSR.

ORIG. RUB. : Tr. Bashkirst. s.-kh. in-te, 1956, 7, 319-328

ABSTRACT

Two methods are indicated for reconstruction of low-value young trees - care by tree-fellings and cultivations. The technique is described of tree-felling care for the purpose of reconstruction and its economic foundation; cultivation methods are also described.

CARD:

1/1

COUNTER

- Poland

K

CATEGORY

Forestry. Forest Management.

ARE. JOUR,

Ref Zhur-Biologiya, No.1, 1959, No. 1463

AUTHOR

: Chodzicki, Edward

INST. TITLE

Reorganization of Carpathian Forests in Poland

ORIG. PUB. : Sylwan, 1956, 100, No.10, 27-57

ABSTRACT

:No abstract

GDR

CATEGORY

Forestry, Forest Management.

ABS. JOUH. * Ref Zhur-Biologiya, No.1, 1959, No. 1466

AUTHOR

Ertela, W.

INST. TITLE

Modern Rethod of Investigation in the Field

of Forest Productivity.

ORIG. RUE. : Arch. Forstwesen, 1957, 6, No.5-6, 421-431

ABCTRACT

Increasing attention has of late been addressed to investigation of problems of principle, which renders essential the development of methods that are more accurate than in the past. A survey is given of the following important problems in the field of forest productivity: evaluation of plantings, effect of computation methods, application of Eichhorn's law and dynamic classification, problems of the so-called "ideal" thinning and course of growth, and also

CARD:

1/2

JOUNTRY CATEGORY

K

100

ABS. JOUR. : REF ZHUR - BICLOGIYA, NO.1, 1959,

No. 1466

AUTHOR

INST.

TITLE

TRIG. PUB. :

ARSTRACT

: the productivity of the chief species in accordance with habitat conditions. Modern ways and means of solving the problems set are examined.

-- P.E. Sarma

CARD:

K

COUNTRY

. USSR

CATEGORY

Forestry. Forest Management.

AES. JOUR. Ref Zhur-Biologiya, No. 1, 1959, No. 1467

AUTHOR INST.

Levin, V.I.

TITLE .New Graphic Method of Determining the Stock of Timber Stands.

ORIG. FUE. Izv. vyssh. uchebn. zavedeniy. Lesn. zh., 1968, No.1, 72-78

ABSTRACT

Nomograms for spruce and pine groves of the north, drawn up by the author, are proposed for the purpose of simplification, without reducing the accuracy of results (in enumerational valuation) in determining the reserve stock. This method eliminates the need for multiplication of the tabular volume by the number of trees, inasmuch as the ready stock is given in the nomogram by height and sum the areas of stands. Put at the basis of

CARD:

1/3

COUNTRY

CATEGORY

ABE. JOUR. REF ZHUR - BIOLOGIYA, NO.1, 1959 ,

No. 1467

AUTHOR

INST.

TITIE

MIG. PIB. :

ARSTRACT

: the nomograms are the equations:

for pine $M = Q(0.414 \cdot H + 0.641 + 0.908 \cdot H + 0.814)$

for spruce $M=Q(0.416 \cdot H+0.429 : H+\frac{0.32}{0.647+0.898 \cdot H} + 0.767)$,

where M is the reserve stock in the area of recalculation in cu.m.; Q is the sum of the stand areas in the recalculation area in sq.m.; H is the average height of the timber stand in

CARD:

COUNTER CATEGORY

ARS. JOUR. REF ZHUR - BIOLOGIYA, NO.1, 1959,

ROHTUA

TWOT

TITIE

No. 1467

ORIG. PUB.

ABSTRACT

meters. A description is given of the use of nomograms and stock determination by nomogram by means of the Bitterlich amplitude-measure (by visual estimation) remodelled by the author.

-- L.V. Mesmelov

CARD:

3/3

COUNTER

. USSR

CATEGORY

Forestry, Forest Management.

ARS. JOUR. Ref Zhur-Phologiya, No. 1, 1959, No. 1468

AUTHOR INPT.

Moiseyev, V.S.; Pishchelin, M.T.

TITIE

Ways to Rationalize Means of Drawing Up Forest Plans in Verious Types of Forest Management and Locale Relief Conditions.

ORIG. PUB.

Sb. statey po ustroystvu i obsledovaniyu lesov. L., 1958, 53-69

ABSTRACT

'No abstract

COUNTER

USSR

CATEGORY

Forestry . Forest Management.

ARS. JOUR. Ref Zhur-Biologiya, No.1, 1959, No. 1469

AUTHOR MET.

Samoylovich, G.G.

TITLE

: Method of Studying Aerial Evaluation Chargeteristics of Stands.

ORIG. FUE. Sb. statey po ustroystvy i obsledovaniyu lesov. L., 1958, 26-34

ABSTRACT

2No abstract

CARD:

1/1

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COUNTEL

USSR

CATEGORY

Forestry . Forest Management.

ARS. JOUR. Ref Zhur-Elologiya, No.1, 1959, No. 1471

MUTHOR INST.

Kurzin, N.I.

TITLE

Determination of the Age of Technical Maturity of a Forest.

K

ORIG, FUE. : Iesn. kh-vo, 1958, No.5, 16-19

ABSTRACT

:No abstract

JARD:

K

K

. (1.35) COL LIE

CATEGORY Forestry . Forest Management.

ARS. JOUR. Ref Zhur-Biologiya, No.1, 1959, No. 1472

AUTHOR : Vagin, A.V.

INST.

Industrial Price-fixing of the Wood Stock TITIE

to be Felled, by means of Maximal Output

Coefficients of Grades.

ORIG. FUE. IIzv. vyssh. uchebn. zavedeniy. Lesn. zh.,

1958, No.2, 27-33

ABSTRACT 'No abstract

CaRD:

1/1

COUNTER! - USSR

CATEGORY Forestry. Forest Management.

ABS. JOUR. Ref Zhur-Biologiya, No.1, 1959, No. 1472

MOTTUR INST.

Tikhomirov, B.N. Siberian Forest Engineering Institute

TITLE Veluation Tables for Pine Timber Stands of the Angara River Basin.

ORIG. FUB. Tr. Sibirsk. lesotekhn. in-ta, 1957, sb.

16. 113-133

ABSTRACT ²No abstract

. Tuncij via

CATEGORY

Forestry. Forest Management.

ABS. JOUR. : Ref Shur-Biologiya, No.1, 1959, No. 1474

AUTHOR

: Klepac, Dusan

INST. TITLE

Annual Volume Increment Depending on the Dia-

meter in Selected Plantings of Fir (Croatis)

ORIG. PUB. : Sumarski list. 1956, 80, No.1-2, 1-16

ABCTRACT

No abstract

CARD:

1/1

K

COUNTEL

· USSR

CATEGORY

Forestry. Forest Management.

ARS. JOURS.

Ref Zhur-Biologiya, No.1, 1959, No. 1475

AUTHOR

Kireyev, D.M.

THET. TITLE

Experiments of Measuring Tree Heights by Planned

Large-Scale Aerial Photographs.

ORIG. FUE. 38b. statey po ustroystvy i obsledovaniyu lesov.

L., 1958, 78-83

ABSTRACT

No abstract

. Week

CATEGORY

Forestry . Forest Management.

ABS. JOUR.

Ref Zhur-Biologiya, No.1, 1959, No. 1476

AUTHOR

: Zhukov, A.Ya.

INCT. A Company of the same

Experiment in Determining the Number of Trees by Lerge-scale Aerial Photographs.

ORIG. PUB.

3 Sb. statey no ustroystvu i obsledovaniyu lesov.

L., 1958, 78-83

ARCTRACT

'No abstract

CARD:

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COUNTER

USSR

CAMEGORY

Forestry . Forest Management.

ABS. TOUR.

Ref Zhur-Biclogiya, No.1, 1959, No. 1478

HORTHA

INST.

Runin, S.N. . Warainian Agric. Acad.

TITIE

Nature and Management of Forest Economy in

Kaliningrad Forests,

ONIG. FUB.

Sb. stud. nauchno-issled. rabot Ukr. s.-kh.

akad., 1958, vyp. 3, 153-156

ABCURACT

:No abstract

CAFD:

COUNTER

USSR

CATEGORY

Forestry. Forest Management.

ARS. JOUR,

Ref Zhur-Biologiya, No.1, 1959, No. 1479

AUTTOR INST.

Mikhaylov, L.Ye.

TITIE

White Willow and Black Poplar Economy in the District of the Volgo-Akhtubinsk Flood Plain.

ONIG. PUB. 11ash. Eh-vo. 1958, No.6, 19-21

ABCTRACT

3 No abstract

CARD:

1/1

COUNTIE

Rumania

CATEGORY

Forestry. Forest Cultures.

ABS. JOUH. Ref Zhur-Biologiya, No. 1, 1959, No. 1482

AUTHOR INPT.

: Lazarescu, C.

TITLE

Application of Biometric Method in Standardization of Forest Seeds.

ORIG, FUB. (Rev. padurilor, 1957, 71, No.3, 157-159)

ABSTRACT

:It is proposed that on the basis of biometric data seeds be graded in 4 classes: (a) < M-; (b) from >M - 6 to M; (c) from M to M + 6; (d) >N + &, where M is the mean-weighted value of a given characteristic, and & is the standard deviation. In individual selection, it is proposed that seeds of the first and fourth classes be employed.

-- A. Yana

K

K

COUNTRY

. USBR

CATEGORY

Forestry . FOREST CULTURES.

ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1483

AUTHOR INST.

: Khristevs, L.A.; Ponomarenko, V.A.; · Kharkov Univ. Kotlyuba, V.G.

TITLE

Effect of Humic Fertilizers on the Growth of Pine, the Chief Afforestation Culture of

the Lower Dnieper Sands.

ORIG. FUB. 3 y sb.: Guminovye udobreniya, Khar'kov Khar'kovsk. un-t, 1957, 313-330

ABCTRACT

By experiments at the Golopristanskiy Leskhoz(1953), it was established that humic fertilizers raise the vitality and droughtresistance of pine in the lower Dnieper sands. It is recommended that in nurseries humophos and watering with a 0.001 % solution of sodium humate be applied in combination with supplementary mineral fertilizers. It is expedient to activate planting material of a different district by wetting the root system

CARD:

1/2

JOUNTRY CATEGORY

K

ABS. JOUR. : REF ZHUR - BIOLOGIYA, NO.1, 1959;

E. . 1483

AUTHOR INST.

TITLE

TRIG. PUB. :

ARSTRACT

of seedlings in an 0.002 % solution of sodium humate and in a mixer of humophos.

-- L.V. Nesmelov

CARD:

1

COUNTER

USSR

CAUMGORS

Forestry. FOREST CULTURES.

ARG. JOUR. Ref Zhur-Biologiya, No.1, 1959, No. 1484

AUTHOR

Danilova, A.A.

INST.

· Povolzh'ye Forest Engineering Inst.

HITLE

Experiment in Use of Fertilizers in Growing

Seedlings of Certain Species.

ORIG, FUE.

Sb. tr. Povolzhek. lesotekhn. in-t, 1957 (1958),

ABSTRACT

No.52, 165-168

No abstract

CARD:

1/1

COUNTER CATEGORY USSR

Forestry :FOREST CULTURES,

AKF. JOUR. Ref Shur-Biologiya, No.1, 1959, No. 1486

AUTISOR

Verich, F.P.; Oberto, V.I. · Voroshilovgrad Leskhoz

INET. TITIE

Growing of White Willew and Black Poplar

Seedlings in the Donbas Conditions.

ORIG. FUB. Clesn. kh-vo, 1958, No.1, 75-76

ABCTRACT

An experiment at the Voreshilovared Leskhoz growing seedlings of white willow and black poplar from seeds is described. Fertile shoots were stuck into beds at the nursery. The seeds began almost at once to come out and in two days (with intensified watering) fine sprouts appeared. The number of shoots recommended is not more than 30 specimens per 1 sq.m.

COUNTH: CATEGORY · Bulgaria

Forestry . FOREST CULTURES.

ARS. JOUR.

Ref Zhur-Biologiya, No.1, 1959, No. 1487

AUTHOR INST.

Daskslov

TITTLE

Cur (Rulgaria) Experience in Producing Linden Flanting Material in the Forest Nursery in the District of the City, St. Dmitrov, in 1956.

ORIG. RIB.

Gorsko stepanstvo, 1957, 13, No.4, 180

ABSTRACT

Described are the technique and periods of linden seed stratification, the methods of preparing soil, sowing, the care for sowings and opposed and other agricultural measures. Successful results in the growing of seedlings are noted.

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ARS. JOUR. Ref Zhur-Biologiya, No.1, 1959, No. 1488

AUTHOR

: Palashev, Ivan

INPT.

. Ministry of Agriculture and Forestry

THE

Depth of Sowing Acorns. Preliminary Findings.

Nauchin tr. M-vo zemed i gorite. Ser. ras-ORTG, FUE. | teniyev"dstv1, 1958, 3, No.1, 43-48

ABSTRACT

: Observations of acorns Quercus cerris sown by the nest method were conducted in 1951 and 1953-1954 to ascertain the optimal depth for sowing acorns in the conditions of southeast Bulgaria. It was determined that differing depth of sowing determines variation of seedlings in respect to quality and quantity. The highest germination is observed with spring sowing at a depth of 5 cm. The percentage of germination is reduced in proportion to the

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increase of depth. The best results in spring sowing are obtained with acorns imbedded at 8 cm. in a heap of earth. In all cases the maximal growth of seedlings is noted with sowing depth of 5 to 8 cm. With other conditions equal, spring sowing is most effective.

-- L.V.Nesmelov

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CAREGORY Forestry

ARS. JOUR. Ref Zhur-Biologiya, No.1, 1959, No. 1489

Elitati wakani wasani.

MITTOR

Semenkova, I.G. INST.

. Moscow Agric. Acad. imeni K.A. Timiryazev

TITLE

:Problem of the Effect Specific Weight of Acorns Has on their Sowing Qualities and

Susceptibility to Diseases.

ORTG, FUB. Dokl. Mosk. s.-kh. azhad. im. K.A. Timiryazeve,

1957, vyp. 31, 155-161

ABSTRACT

Acorns from Voronezhava Bryanskava Moskovskava Oblasts and also from the Lithuanian and Georgian SSR were investigated in 1955-1956 at the Phytopathological Faculty of the Timiryazev Agricultural Academy and at the Buturlinovskiy Leskhoz (Voronezhskaya Oblast). A solution of Ca chloride (with specific gravity of 1.20 and 1.10) and water was used for the separation of acorns according to specific weight. After scrting, four fractions of acorns were received

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ABS. JOUR. : REF ZHUR - BIOLOGIYA, NO.1, 1959 , No. 1489

ABSTRACT

:with the following specific weights: >1.2; 1.1 - 1.2; 1.0 - 1.1; <1.0. The acorns with the higher specific weight are distinguished by higher sowing qualities, while the oak seedlings derived from such acorns grow better and are to a lesser degree subject to powdery mildew. :Such accrns are better preserved over winter

and are found more resistant to fungue diseases. The sorting of acorns according to specific weight before putting them into winter storage should be considered an expedient measure to eliminate the expense of storage and fungicidal treatment of acorns known to be of low grade.

N.Ye. Skripitsyna

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Forestry FOREST CULTURES

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Ref Zhur-Biologiya, No.1, 1959, No. 1490

MUTTOR

Spirchez, Z.

Mag. TITIE

Increase of Acorn Crop Yield in National

Forest Seed Preserves.

OSTG, FUB. Rev. padurilor, 1957, 71, No.10, 632-635

ABSTRACT

(8) The questions examined are: In the conditions of the RNR (Rumenian Peoples Republic) does the oak bear fruit annually or periodically; (b) the search of means to raise the crop yield of acorns. Observations and experiments in national seed forests and forest farms resulted in the finding that the flowering is characterized by annual fluctuations in intensity. The periodic character of fruitbearing is a result of the unfavorable effect

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: REF ZHUR - BIOLOGIYA, NO.1, 1959 . Wo. 1490

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ARS TRACT

: of biological or climatic factors. Raising the acorn hervest-yield is possible through the removal of underbrush, special tilling of the soil and placement of mineral and organic fertilizers. In founding national seed forests it is recommended that the amplitude be reduced to 0.7 in 3 to 4 stages (during 8 to 9 years)

-- A. Yana

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Forestry . FOREST CULTURES. .

ARS. JOUR. 'Ref Zhur-Biologiya, No.1, 1959, No. 1491

AUTHOR

Sechnyak, L.K.

MET. TTTE

· Krymskaya Oblast State Agr. Exper. Station Hill Sowings of Oak in the Crimean Steppe.

ORIG, FUB. Tr. Krymsk. obl. gos. s.-kh. opytn. st., 1956, 2, 85-97

BOTRACT

By observations of the condition of hill sowings of oak in the central stappe district of the Crimean peninsula in southern chernozems, it was established that all the hill sowings founded in 1949-1951 under a cover of grain crops and perennial grasses, perished completely in the first 1 to 2 years in the conditions of the arid climate of this zone and frosts reaching minus 330 in winter. The only oak sowings preserved partially were those where inspite of

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ABS. JOUR. : REF ZHUR - BIOLOGIYA, NO.1, 1959, No.1491

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instructions, the cover crops were removed from the nests by weeding and the soil was loosened. In experimental hill sowings of oak, planted in 1953 without cover crops, with high agrotechnique and careful subsequent tending of the soil and plants to the end of the second vegetation season, 6480 to 13,040 oaks per 1 hectare were preserved in various belts with the average plant height reaching 10.0 to 20.9 cm. In row-hole sowings two-years old of the same period 11,020 to 16,640 oaks per 1 hectare

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REF ZHUR - BIOLOGIYA, NO.1, 1959,

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ABSTRACT

were preserved in various belts with the average plant height reaching 10.0 to 16.7 cm. The placement of mycorrhiza did not have a marked effect on the growth and survival of oak. A dependence between the height of the oak and the method of sowing the acorns was not found. It is indicated that the method of hill crops without care of the soil and plants is inadmistible in a dry steppe.

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ABS. JOUR. : REF ZHUR - BIOLOGIYA, NO.1, 1959,

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AUTHOR :

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* Forestry . FOREST CULTURES.

ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1496

AUTHOR

: Petkuts, N.

INST.

: Soil Inst. Bulgarian AS

TITLE

The Beginning of Field Shelter-belt Forestation in Rumania and the System of Field Shelter-Belts in Karvun.

ORIG. PUB.: Izv. Pochv. in-t. B"lg. AN, 1957, 4, 411-420

ABSTRACT

; Field Shelter forest belts were founded in Karvun in the 1936 to 1940 period with the use of very diversified assortment of treeshrub species. The species were combined chiefly to make possible the development of plantings with triangular and trapezoid profile. The agrotechnique of the Karvun forest belts is given, the principles of selecting species are described and recommendations are cited for the care of plantings. Observations of

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REF ZHUR - BIOLOGIYA, NO.1, 1959

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ARS TRACT

belt development established the advantage of the mixed composition over the pure acacia plantings which had been practised in the initial period of field shelter belt forestation in the country (1879-1881). Data are given on the growth of belts and their shelter efficiency.

--L.V.Nesmelov.

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. USSR

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: Forestry . FOREST EULTURES.

ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1497

AUTHOR

Yatsyno, L.P.

INST.

TITLE

The Growth and Restoration of Forest Belts in Ordinary Chernozems of the Middle Volga Region.

ORIG. PUB. : Lesn. kh-vo, 1958, No.1, 28-31

ABSTRACT

Narrow and broad (400 to 600 m.) belts were investigated in a number of sections of Saratov and Kuybyshev oblasts. In the majority of cases elm predominates in the belts, but at a number of places by tree-felling maintenance, a predominance of oak, birch, ash and pine has been attained. It was determined that with increase of age the belts decline in height gain and change to lower locality*which is, however, compensated by the increase in thickness gain.

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ABS. JOUR. : REF ZHUR - BIOLOGIYA, NO.1, 1959

No. 1497

AUTHOR :

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ABSTRACT

The elm, ash and oak reduce the locality class 1.5 to 3 classes, while the birch, maple and pine reduce by 0.5 to 1 class. The narrow belt plantings have higher average diameter than the usual (by 1.5 to 2.2 times), but the number of trunks in them is less. The sparsity of stand is covered by the greater thicknesses. In 50 to 60 years the majority of deciduous trees preserve brush growth capacity (excepting birch). Seed restoration is feeble,

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REF ZHUR - BIOLOGIYA, NO.1, 1959

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and Norway unple and ash give good second growth. The effect of tree-felling maintenance on the form and structure of plantings is described. Recommendations are given on selection of restorative tree-fellings.

__L.V.Nesmelov

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ARS. JOUR.

Ref Zhur-Biologiya, No.1, 1959, No. 1498

AUTHOR

: Kosourov, Yu.F.

TITE

'; Crop Gain in Irrigated Conditions and the Lower Limit of Optimal Soil Moisture-Content.

ORIG. FUE.

Lesn. kh-vo, 1957, No.12, 68-70

STATES COLL STATE

ABSTRACT

of the Volga-Don Canal on 2 to 3 year old irrigated cultivations of green ash, black locust and littleleaf elm in light-chestnut light-loamy soil with watering, in dark-colored medium-loamy soil with and without watering. The observation method is briefly set forth. It was determined that the seasonal gain in cultivations is extremely uneven and closely connected with the supplies of available moisture

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No. 1498

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ARSTRACT

in the layer inhabited by roots. In case of soil moisture deficiency, the average-daily gain drops abruptly, and when moisture content is close to unavailable, is discontinued entirely. Replenishment of water reserves determines the renewal of growth gain. Characteristics are given of the course of gain during the vegetation season by species.

-- L.V.Nesmelov

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Forestry. FOREST CULTURES.

K

ARE. JOUR. Ref Thur-Biologiya, No.1, 1959, No. 1503

ROHTE

. Kushnikov, N.; Gavrilov, A.

Collection of Seeds of Yellow Pine.

ORIG, FUE. Lesn. kh-vo, 1958, No.4, 78-79

ABSTRACT

No abstract

CARD:

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COUNTRY

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CATEGORY

Forestry. FOREST CULTURES.

K

ABS. JOUR. : Ref Chur-Biologiya, Mo., 1959, No. 1504

AUTHOR

Belitz. G.

Various Times for Planting Fine Cultivations

(German Democratic Republic)

ORIG. PUB. : Forst und Jagd, 1958, 8, No.3, 105-108

ABSTRACT

:No abstract

. USSR

JA ET S

* For saidy . FOREST CULTURES! I.

ARS. JOUR. Ref Zhur-Biologiya, No.1, 1959, No. 1505

AUTHOR

: Afonin, A.K.; Turenko, A.P.

INST.

TITLE

Planning of Shelter-Belt Forestation in the

Golodray Steppe.

ORIG. PUB. : Lesn. kh-vo, 1958, No.5, 22-24

ABSTRACT

:No abstract

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CATEGORY

Forestry . (CFEST CULTURES.

ARE. JOUR.

Ref Zhur-Biologiya, No.1, 1959, No. 1506

AUTHOR

: Komissarov, N.A.

INST.

TITLE

Experience of Shelter-belt Forestation in the

Verkhus-Mokshanskiy Leskhoz.

ORIG. PUE. 3 Lesn. kh-vo, 1958, No.5, 65-66

ABSTRACT

'No abstract

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. USSR

CATEGORY

Forestry .FOREST CULTURES.

ARE. JOUR. Ref Zhur-Biologiya, No.1,1959, No. 1507

K

15

AUTHOR

Gavrik, O.Ya.

INST. TITLE

Ukrainian Agric. Acad. Growth of Tree Species in the Forest Belts of the "Pobeda" Kolkhoz, Malo-Viskovskiy

Kirovogradskaya Oblast. Rayon.

:Sb. stud. nauchno-issled. rabot Ukr. s.-kh.

ekad.,1958, vyp. 3, 145-147

ABSTRACT

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COUNTRY

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CATEGORY

Forestry . FOREST CULTURES.

ARS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1508

AUTHOR

: Fedorenko, S.I.

INST.

TITLE

State Forest Shelter Belt of Belgorod-Don.

ORIG. FUB. ; Lean. kh-vo, 1958, No.5, 5-9

ABSTRACT

¿No abstract

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CATEGORY

Forestry . FOREST CULTURES.

ARS. JOUR.

* Ref Thur-Biologiya, No.1, 1959, No. 1509

14

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AUTHOR

Yelinetskiy, L.M.

INST.

TITLE

. Convincing Data on the Effect Forest Belts

Have on the Crop Yield.

ORIG. FUB. ; Lesn. kh-vo, 1958, No.5, 33-34

ABSTRACT

No abstract

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Forestry. FOREST CULTURES.

ARS. JOUR. # Ref Zhur-Biologiya, No.1, 1959, No. 1510

AUTHOR

INST.

Voronin, I.V.; Popov, V.M.

TITIE

Economic Importance of Forest Belts in the Work of the South-eastern Railway.

ORIG. PUB. : Izv. vyssh. uchebn. zavedeniy. Lesn. zh., 1958;

No.2, 34-40

ABSTRACT

No abstract

- USSR

CATEGORY

Forestry FOREST CULTURES.

ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1511

AUTHOR

: Kapustinskaite, T.

INST. TITLE

Keans of Breeding Black Alder (Lithuania)

ORIG. FUE. : Soc. zemes ukis, 1956, No.8, 48-51

ABSTRACT :No abstract

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CARD:

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COUNTRY

: USSR

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CATEGORY

: Forestry. FOREST CULTURES.

: Pekshibayev, M.I.

ABS. JOUR. :: Ref Zhur-Biologiya, No.1, 1959,

No. 1513

AUTHOR

INST. TITLE

:The Kuban Chestnut Groves - A Valuable Seed

Base

REG. PJB. : Sb. rabot po lasn. kh-vu Sev. Ravkaza.

Vyp. 3, Maykop, 1958, 137-145

ARSTRACT

:No abstract

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